



RANGE CONTROL BRIEF



RANGE CONTROL



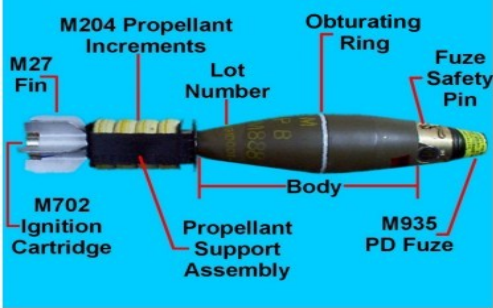
Situation

- The importance of attention to detail and avoidance of complacency when using weapons/ammunition and pyrotechnics in garrison/training areas/live fire ranges as part of tactical environments is paramount.

You will be held Accountable!

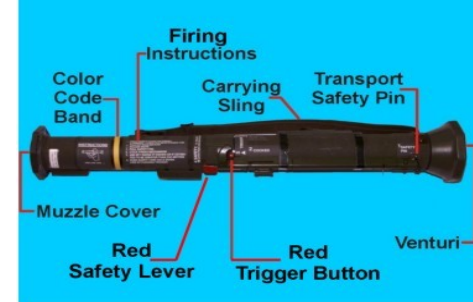
You are Responsible!

It is a Command Responsibility!



Cartridge, 60mm High Explosive M888
(DODIC B643)

RANGE CONTROL



Cartridge and Launcher, 84mm M136 AT-4
(DODIC C995)

Objective

Apply *OPERATIONAL RISK MANAGEMENT* to all Weapons, Ammunition, Pyrotechnics and Range Operations at all times for *ACCIDENT PREVENTION*.

Know your Marines/Sailors, Watch after them.

If it can Happen, it will Happen, and most likely it has Happened Already Once Before!



Grenade, Hand Fragmentation M67
(DODIC G881)

RANGE CONTROL



Reasons for Error

- The major underlying reasons for errors related to all accidents and injuries on live fire ranges are:
 - Lack of self-discipline.
 - Failure to enforce standards/policies.
 - Inadequate or lack of training.
 - Inadequate supervision.
 - Inadequate planning.

Common Sense/Leadership is a must!!



RANGE CONTROL



Weapons

- Most common injury-producing areas in handling of weapons/ammunitions.
 - Failure to follow proper procedures.
 - Improper or inadequate clearing.
 - Untimely loading/unloading.
 - Personnel in the path of the recoil or back blast.
 - Failure to enforce standards.

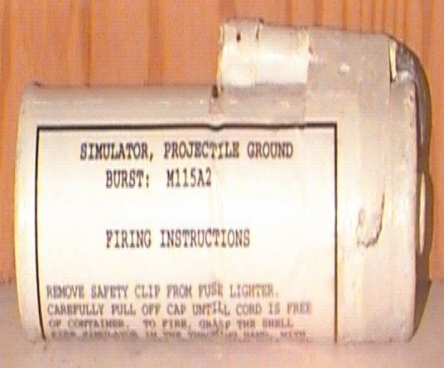


RANGE CONTROL



Range Safety/Ammunition Safety

- Blank Ammunition Safety (BFAs)
- Camp Pendleton Situation (Twice)
- Keep Blank Ammunition and Live Ammunition Separate
- (Shake Down/Check/Recheck and Supervise!)
- Training Devices/Pyrotechnics Safety
- SESAMS/SIMUNITION Safety
- Ammunition/Weapon Security at all times
- Crew Served Weapons/Stock Weapons/LTIs/PFIs
- Repacking Ammunition



RANGE CONTROL



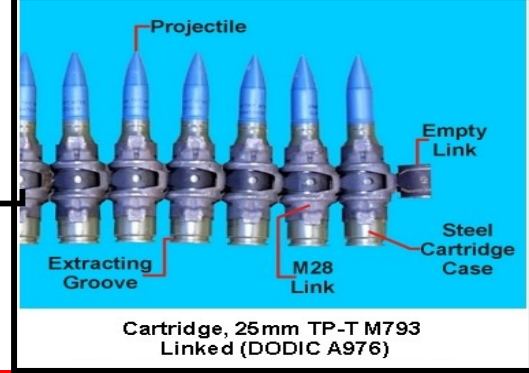
Signal, Illumination Ground White Star
Cluster M159 (DODIC L307)

Pyrotechnics

- Most common injury-producing areas in the handling of ammunition & pyrotechnics is failure to properly observe safety features.
 - Improper safety procedures.
 - Improper attention to detail.
 - UXO/Simulators.
 - Hazards/Controls.
 - Double Check/Supervise



RANGE CONTROL



Policy

- The safe conduct of Marines training, firing, detonating explosives and live fire maneuvering on ranges and training areas is a command responsibility.
 - Surface Danger Zones (SDZs) Ground
 - Weapons Danger Zone (WDZs) Air



RANGE CONTROL



References

- MCO 3570.1C, DA PAM 385-63 (New)
- Base Order 3570.1C (Range Control SOP)
- Laser Safety, MCO 5104.1B
- ORM Order, MCO 3500.27B
- Pocket Guide, Range Safety



RANGE CONTROL



Requirements

- MCO 3570.1C/DA PAM 385-63 and the BO 3570.1C (Range Control SOP) prescribes the Marine Corps and Camp Lejeune Range Safety policies, procedures, responsibilities, and standards for firing all ammunition, lasers, guided missiles, rockets, and provides guidance for the application of risk management in range operations.



RANGE CONTROL



Reporting

- Accidents and Ammunition Malfunctions will be reported IAW
 - MCO P5102.1B (Mishap/Safety)
 - MCO P8020.10B (Ammo/Expl Safety)
 - NAVMC 10155 (Ammunition Malfunction Data Collection Guide)



RANGE CONTROL

General Comments

- POV's in the Field/on the Ranges, it is not authorized.
- Trash/Garbage/Ammunition Dunnage (Police it up).
- Communications with Blackburn. 34.70 , 451-3064/4449
- Range Inspectors, Duties/Functions.
- Port-A-Johns, Trash/Ammunition Dunnage.



RANGE CONTROL

- Dummy/Inert Ammunitions (Demo).
- Extra Ammunition/Mad Moments/Trash Shots
- Impact Areas, Burying Ammunition .
- Request for Base EOD Support.
- Vehicle safety, speed limits, cargo/loads (Think Safety).
- Live & Blank Ammo (Segregation) Must Check!



RANGE CONTROL



- Reporting ammunition expended To Blackburn/ Range Control.
- Expenditures Reports (Must Complete).
- Dumpsters (Ammunition Dunnage).
- Range OIC/Function



RANGE CONTROL

Operational Risk Management (ORM)

Hazards	Causes	Controls	Risk Assessment
A Marine getting shot	Improper weapons employment	Proper training, knowledge of left and right lateral limits, safety brief, and supervision. Gunners will be told to keep weapons pointed down range.	Moderate
Personal Injury	Improper weapon function	Proper PFIs before firing and inspection of weapon by gunner prior to going down range each time	Moderate
Injury to others	Ammo in weapon when returning to start point	Proper brass check to ensure weapon is clear	Moderate
POVs entering range area while conducting training	Disregard for posted signs, gates, and road guards	Locked gates. Check for POVs every morning before going hot.	Low
Hearing damage	Decibels exceeding normal range	Hearing protection	Low
Sunburn/ Dehydration	Lack of water, improper rest, improper gear	Proper supervision, training, gear checks(full canteens, sunscreen, utilities, rest breaks	Low



RANGE CONTROL

DELINKING

- BO 3570.1C (Range Control Order)
 - Pg 5-8, (11) During fire conditions 5 and above units are restricted from delinking ammunition until approved by the G-4/S-4 ammunition section. .50 Cal ammunition is not authorized to be delinked. When approval for delinking ammunition has been granted, only ***approved (ie: .50 Cal)*** tools and methods are authorized.
- MARCORSYSCOM will provide guidance for delink and link procedures for 25mm.



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- Approved delinking requires:
 - MSC Approved
 - Standard Operating Procedures (SOP)
 - Appropriate Facilities
 - Qualified personnel with Quality Assurance supervising
 - Maintain lot integrity
 - Minimize reuse of Links. M27 5.56mm Links lose 2 lbs of torque after one disassembly and reassembly

SAFETY ALERT

OUTLAW 01 SENDS

25 MAY 2012

ENSURE WIDEST DISSEMINATION



FILE

APRIL 20

14 MAY 2012: A Soldier struck an unexpended **blank** 50 cal round against the top right handle of a M2 Machine Gun. The round detonated resulting in the **partial amputation of right distal thumb** and injury to index and middle fingers.

LESSONS LEARNED:

- ❖ Establish a command climate that does not allow for ammunition handling complacency.

AMMUNITION SAFETY

SAFETY ALERT

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RANGE CONTROL

Safety Violations

- Importance of shakedowns
- This ammo was found at a civilian airport.
- Shakedown of personnel and their gear should be conducted prior to leaving the Range!!!!





RANGE CONTROL

Think and Act Safety!

Marines/Sailors you are a very valuable asset, please take care of yourself, and if you are in charge, take charge and take care of your Marines/Sailors.
Train them right.



Questions